Atty. Docket: 54320.000008

Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known	
Application Number	09/824,053
Filing Date	April 3, 2001
First Named Inventor	Peter STOUGAARD et al.
Group Art Unit	1652
Examiner Name	W. Moore
Attorney Docket Number	54320.000008

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	U.S. Patent Document Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	5318785		DeStefanis	06-07-1994	
	2.	6039983		Wagner et al.	03-21-2000	
	3.	09/932,923		Søe et al.	filed 08-21-2001	
	4.	10/040,394		Søe	filed 01-09-2002	
	5.	10/150,429		Søe et al.	filed 05-17-2002	
	6.	6406723		Søe et al.	06-18-2002	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Foreign Patent Document Number[4]	Foreign Patent Document Kind Code[5] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-MM-DD-YYYY	Country	Translation (Y/N)
	7.	CA	2012723		Maat et al.	09-23-1990	Canada	Y
	8.	JP	7-274807A			10-24-1995	Japan	N
	9.	JP	3-164127			07-16-1991	Japan	N
	10.	JP	4-207146			07-29-1992	Japan	N
	11.	JP	4-207145			07-29-1992	Japan	N
	12.	JP	2-224143			09-06-1990	Japan	N
	13.	EP	0010296		Nagai et al.	04-30-1980	Europe	Y
	14.	EP	0468731		Nobuyoshi et al.	01-29-1992	Europe	Y
	15.	EP	0585988 B1		Van Eljk et al.	03-09-1994	Europe	Y
	16.	GB	2,358,784		Jorn Borch Soe	08-08-2001		
	17.	JP	04-200339 (and English language abstract)		Mikiko, S.	07-21-1992		N
	18.	JP	06-296467 (and English language abstract)		Masaaki, A.	10-25-1994		N
	19.	WO	94/04035		Olesen et al.	03-03-1994		Y
	20.	WO	96/39851		Søe et al.	12-19-1996		Y
	21.	WO	98/45453		Poulsen et al.	10-15-1998		Y
	22.	WO	99/31990		Schneider et al.	07-01-1999		Y
	23.	WO	00/32758		Bojsen et al.	06-08-2000		Y

Examiner Signature		Date Considered	

[1] EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[2] Unique citation designation number. [3] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 3

Complete if Known	
Application Number	09/824,053
Filing Date	April 3, 2001
First Named Inventor	Peter STOUGAARD et al.
Group Art Unit	1652
Examiner Name	W. Moore
Attorney Docket Number	54320.000008

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document: Office[2]	Number[4]	Kind Code[5] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Country	Translation (Y/N)
	24.	WO	01/39602 A1		Søe	06-07-2001		Y
	25.	WO	02/00852		Tsutsumi et al.	01-03-2002		Y
	26.	WO	02/03805		Budolfsen et al.	01-17-2002		Y
	27.	WO	02/065854		Ross et al.	08-29-2002		Y
	28.	WO	02/066622		Tsutsumi et al.	08-29-2002		Y
	29.	DE	4301904		Kopetzki et al.	02-10-1994	Denmark	Y
	30.	CL	858-1991		Patent Application	03-10-1992	Chilean	
	30A	CL	875-1994		Patent Application		Chilean	(No copy)

NON-PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initials*	Cite No.[1]	
	31.	Poulsen, C., et al., "Purification and Characterization of a Hexose Oxidase with Excellent Strengthening Effects in Bread", *Cereal Chem.*, 75(1):51-57 (1998).
	32.	"Effect of Different Hexose Oxidase and Other Oxide Reductases in Dough", Experimental Data Submitted by Applicants in European Counterpart Application 96917368.
	33.	Krog, N.J., "Dynamic and Unique Monoglycerides", *Cereal Foods World*, 24(1): 10-11 (1979).
	34.	Matos, A. R., et al., "A Novel Patatin-like Gene Stimulated by Drought Stress Encodes a Galactolipid Acyl Hydrolase", *FEBS Letters*, 491: 188-192 (2001).
	35.	Withers-Martinez, C., et al., "A Pancreatic Lipase with a Phospholipase A1 activity: Crystal Structure of a Chimerica Pancreatic Lipase-Related Protein 2 from Guinea Pig", *Structure*, 4(11): 1363-1374 (1996).
	36.	Cordle, R.A., "The Hydrophobic Surface of Colipase Influences Lipase Activity at an Oil-Water Interface", *Journal of Lipid Research*, 39: 1759-1767 (1998).
	37.	Sahsah, Y., et al., "Purification and Characterization of a Soluble Lipolytic Acylhydrolase from Cowpea (*Vigna unguiculata* L.) Leaves", *Biochemica et Biophysica Acta*, 1215: 66-73 (1994).
	38.	O'Sullivan, J., et al., "A Galactolipase Activity Associated with the Thylakoids of Wheat Leaves (*Triticum aestivum* L.)", *J. Plant Physiol.*, 131:393-404 (1987).
	39.	Carriere, F., et al., "Pancreatic Lipase Structure-Function Relationships by Domain Exchange," *Biochemistry*, 36: 239-248 (1997).
	40.	Bornscheuer, U.T., "Lipase-Catalyzed Syntheses of Monoacylglycerols", *Enzyme and Microbial Technology*, 17: 578-586 (1995).
	41.	Hou, C.T., "pH Dependence and Thermostability of Lipases from Cultures from the ARS Culture Collection", *Journal of Industrial Microbiology*, 13:242-248 (1994).
	42.	Villeneuve, P., et al., "Lipase Specificities: Potential Application in Lipid Bioconversions", *Inform*, 8(6): 640-650 (1997).
	43.	Cammann, K., et al., "Chemical Sensors and Biosensors-Principles and Applications", *Angew. Chem. Int. Ed. Engl.*, 30: 516-539 (1991).
	44.	Allen, R.M. et al., "Low-Level Electrochemical Detection of Glucose Oxidase and a Glucose Oxidase Conjugate", *Biosensors and Bioelectronics*, 10:621-631 (1995).

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Atty. Docket: 54320.000008

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 3

Complete if Known	
Application Number	09/824,053
Filing Date	April 3, 2001
First Named Inventor	Peter STOUGAARD et al
Group Art Unit	1652
Examiner Name	W. Moore
Attorney Docket Number	54320.000008

NON-PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initials*	Cite No.[1]	
	45.	Wiseman, A., "Immobilization of Glucose Oxidase into Membranes as Sensors for Food Analysis", *Elsevier Science Publishers*, (1987).
	46.	Wilson, R., et al., "Glucose Oxidase: An Ideal Enzyme", *Biosensors and Bioelectronics*, 7:165-185 (1992).
	47.	Raba, J., et al., "Glucose Oxidase as an Analytical Reagent", *Critical Reviews in Analytical Chemistry*, 25(1):1-42 (1995).
	48.	Volc, J., et al., "Glucose-2 Oxidase Activity in Mycelial Cultures of Basidiomycetes", *Folia Microbiol.*, 30:141-147 (1985).
	49.	Giffhorn, F., "Fungal Pyranose Oxidases: Occurrence, Properties and Biotechnical Applications in Carbohydrate Chemistry", *Appl. Microbiol. Biotechnol.*, 54:727-740 (2000).
	50.	Certificate of Analysis for Maltose Monohydrate, SIGMA
	51.	Lin, Shuen-Fuh et al., "Purification and Characterization of a Novel Glucooligosaccharide Oxidase from *Acremonium strictum* T1", *Biochimica et Biophysica Acta*, 1118:41-47 (1991).
	52.	Pazur, J.H., et al., "Comparison of the action of Glucoamylase and Glucosyltransferase on D-Glucose, Maltose, and Malto-Oligosaccharaides," *Carbohydrate Research*, 58:193-202 (1977).
	53.	Qi Si, J., "New Enzymes for the Baking Industry", *Food Tech Europe*, 3(1):60-64 (1996), Novo Nordisk Ferment Ltd.
	54.	Weipert, D., "Rheologie von Roggenteigen., II. Der Einfluß der Enzyme unterschiedlicher Spezifität auf dzas rheologische Verhalten des Teiges", *Getreide, Mehl Und Brot*, 26(10):275-280 (1972); and English language translation of Abstract.
	55.	Nicolas, J., "Mise au Point sur l'action d'enzymers d'oxydoréduction en technologie boulangère. La maturation des farines de blé tendre et le pétrissage des pâtes", *Ann. Technol. Agric.*, 28(4):445-468 (1979); and English language translation of Abstract.
	56.	Mine, Y., "Application of the Enzymatic Methods to the Determination of Contaminated Yolk in Egg White", *Food Research International*, 29(1):81084 (1996):
	57.	Pub. No. 06-296467 (JP 6296467), 10/25/1994, Section No. FFFFFF, Vol. 94, No. 10, Pg. FFFFFF, FF, FFFF (FFFFFFFF) believed to be Patent Abstracts of Japan Vol. 095, No. 001.
	58.	Patent Abstracts of Japan Vo. 016, No. 528 (C-1001).
	59.	Marion Didier, et al., "Lipids, Lipid-Protein Interactions and the Quality of Baked Cereal Products," *Interactions: The Keys to Cereal Quality*, (ed. Hamer & Hoseney), Chapter 6, pp. 131-167 (1998).
	60.	Conference May 6-8, 1999 in Santorini, Greece, "Lipases of Lipids Structure, Function and Biotechnological Applications," Slides presented by Charlotte Poulsen.(no copy)
	61.	C.H. Poulsen, et al., "Effect and Functionality of Lipases in Dough and Bread," *The First European Symposium on Enzymes and Grain Processing*, pp. 204-214 (1997).
	62.	D. Marion, et al., "Wheat Lipids and Lipid-Binding Proteins: Structure and Function," *Wheat Structure Biochemistry and Functionality*, ed. Scholfield JP), pp 245-260 (1995).
	63.	"Unique Chance for Better Bread," *Direct, A Newsletter from Danisco Ingredients*, (1996).
	64.	Sullivan, James Denis Jr., Diss. Abstr. Int. B, 1973, 34(5), 1875, CAN 80: 105204 AN 1974: 105204 CAPLUS, "Purification and characterization of hexose oxidase from the red alga Chondrus crispus"
	65.	Groen, B. W., s De Vries, J. A. Duine (1997), Eu. J. Biochem., Vol. 244, pp. 858-861, "Characterization of hexose from the red seaweed Chondrus crispus"
	66.	Wolff, A. M., O. C. Hansen, U. Poulsen, S. Madrid, P. Stougaard (2001), Protein Expression and Purification., Vol. 22, pp. 189-199, "Optimization of the Production of Chondrus crispus Hexose Oxidase in Pichia pastoris"
	67.	Haarasilta, S., T. Pullinen (1993) in Baking Industry Europe (Alan Gordon, editor), pp. 49-52 (no copy)
	68.	WEBSTER'S Third New International Dictionary (1981) - page 1065 (no copy)
	69.	PCT-International Search Report for PCT/DK96/00238, issued 4/11/96
	70.	PCT-International Search Report for PCT/DK96/00239, issued 9/11/96
	71.	The Examiner's Report on Application of Patent Invention (Chilean Appl. No. 939-96) and English translation thereof

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.